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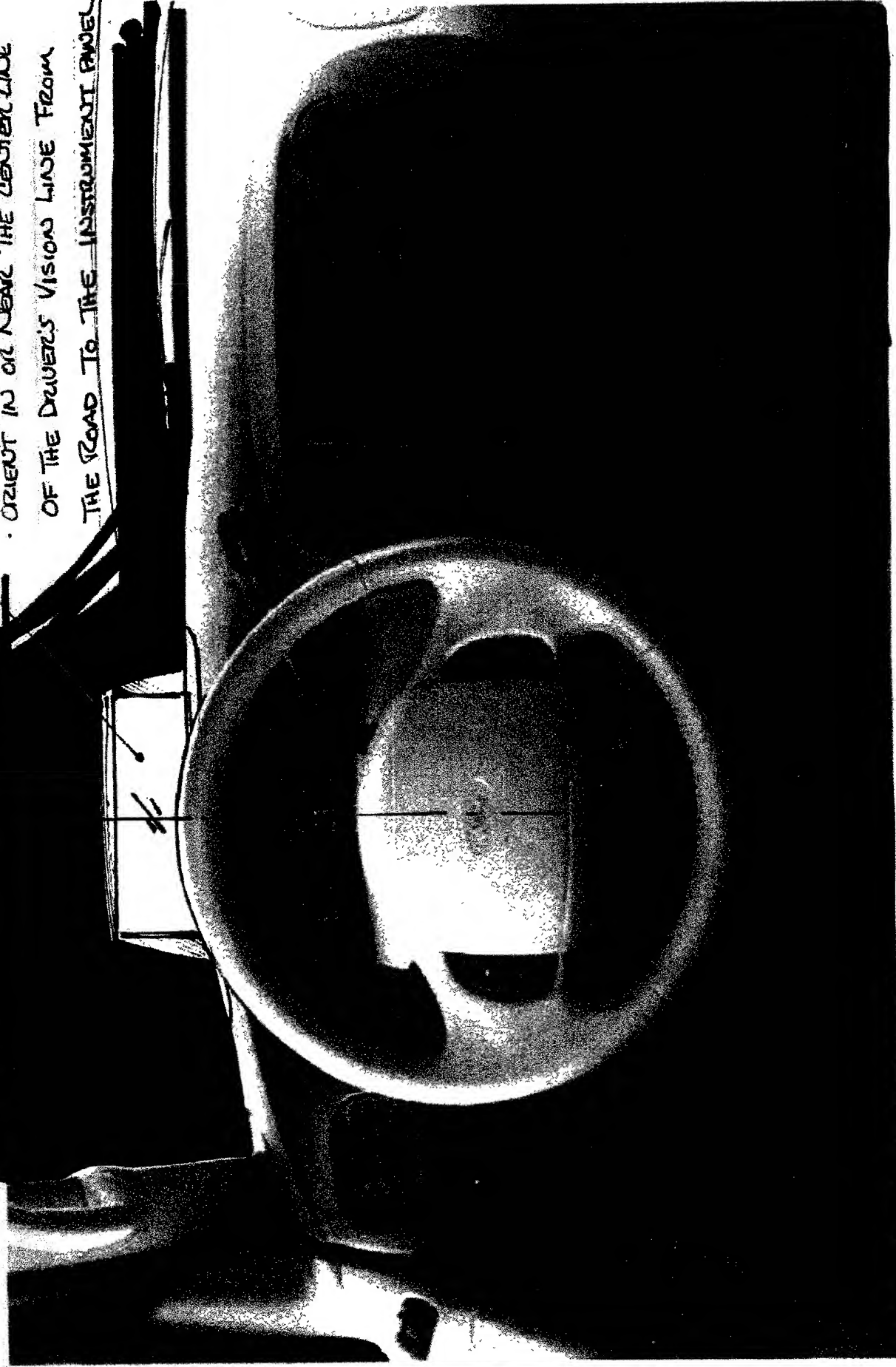
# FLS MONITOR POSITION - DRIVER

6 10 14 18 22 26 30 34 38 42 46 50 54 58 62 66 70 74 78 82 86 90 94 98 102 106 110 114 118 122 126 130 134 138 142 146 150 154 158 162 166 170 174 178 182 186 190 194 198 202 206 210 214 218 222 226 230 234 238 242 246 250 254 258 262 266 270 274 278 282 286 290 294 298 302 306 310 314 318 322 326 330 334 338 342 346 350 354 358 362 366 370 374 378 382 386 390 394 398 402 406 410 414 418 422 426 430 434 438 442 446 450 454 458 462 466 470 474 478 482 486 490 494 498 502 506 510 514 518 522 526 530 534 538 542 546 550 554 558 562 566 570 574 578 582 586 590 594 598 602 606 610 614 618 622 626 630 634 638 642 646 650 654 658 662 666 670 674 678 682 686 690 694 698 702 706 710 714 718 722 726 730 734 738 742 746 750 754 758 762 766 770 774 778 782 786 790 794 798 802 806 810 814 818 822 826 830 834 838 842 846 850 854 858 862 866 870 874 878 882 886 890 894 898 902 906 910 914 918 922 926 930 934 938 942 946 950 954 958 962 966 970 974 978 982 986 990 994 998

INSIDE DASH MOUNT - VARIOUS SIZES

9

- ORIENT IN OR NEAR THE CENTER LINE OF THE DRIVER'S VISION LINE FROM THE ROAD TO THE INSTRUMENT PANEL



VEHICLE SPECIFIC INSTALLATION SHOWN

MO. Sykes & Rosen Products 01.25.01

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OPTIONAL PASSENGER - FILS MONITOR POSITION

OPT. WITH PRIVACY FILTER-FILM

ORIENTED FOR THE PASSENGER AS

A CO-PILOT

CAUTION: MOUNT AWAY FROM

AIRBAG DEPLOY REGIONS!



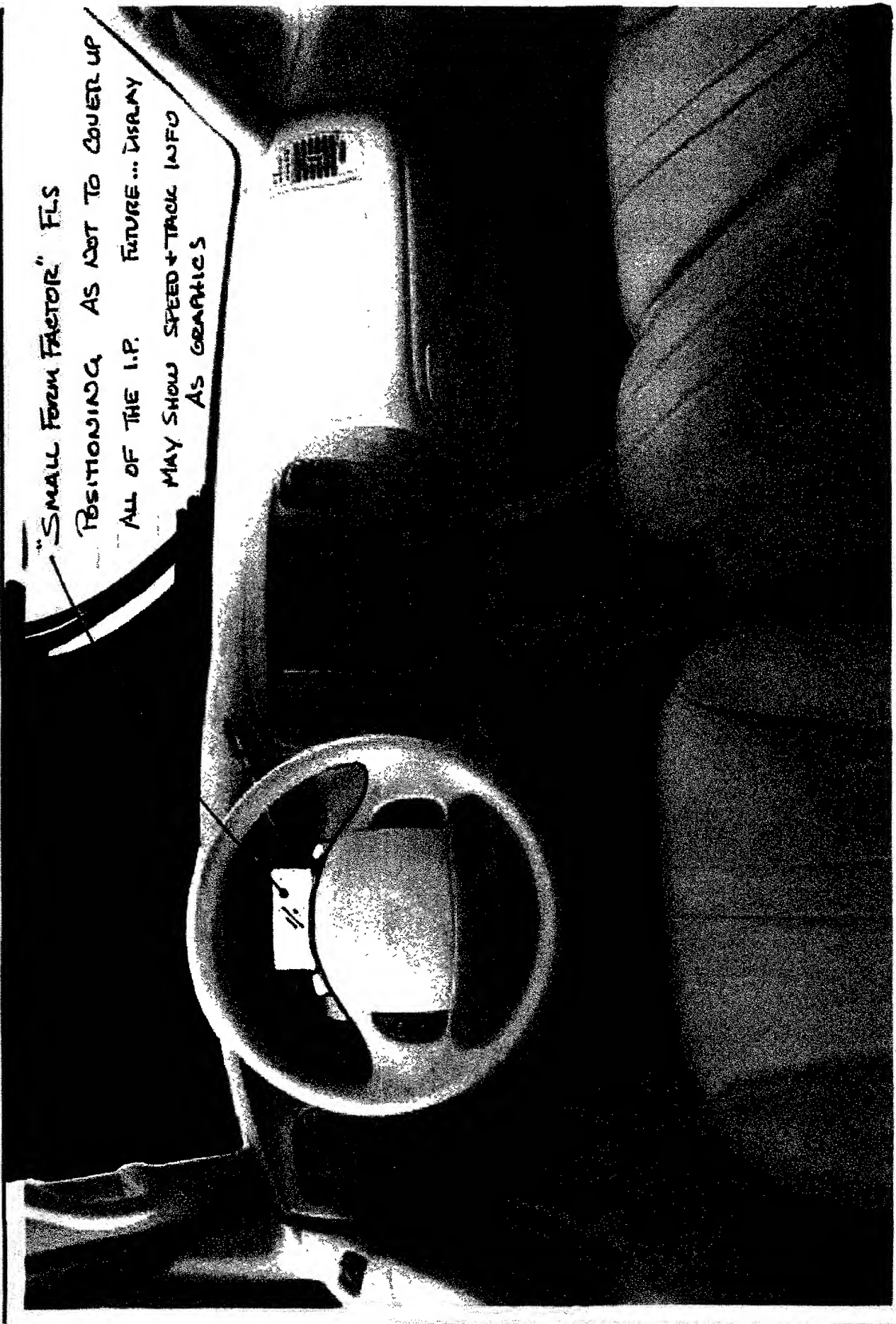
VEHICLE SPECIFIC SHOWN

M.O. Sykes & Raven Products 01.25.01

Small Form Factor (SFF) is a term used to describe a computer system that is designed to be compact and efficient. It typically refers to a desktop computer system that is designed to fit into a small form factor (SFF) chassis. The SFF chassis is designed to be compact and efficient, typically measuring 10 inches in height and 17 inches in width. This design allows for a more compact and efficient desktop computer system.

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"Small Form Factor" FLS  
POSITIONING AS NOT TO COVER UP  
ALL OF THE I.P. FUTURE... DISPLAY  
MAY SHOW SPEED + TRACK INFO  
AS GRAPHICS



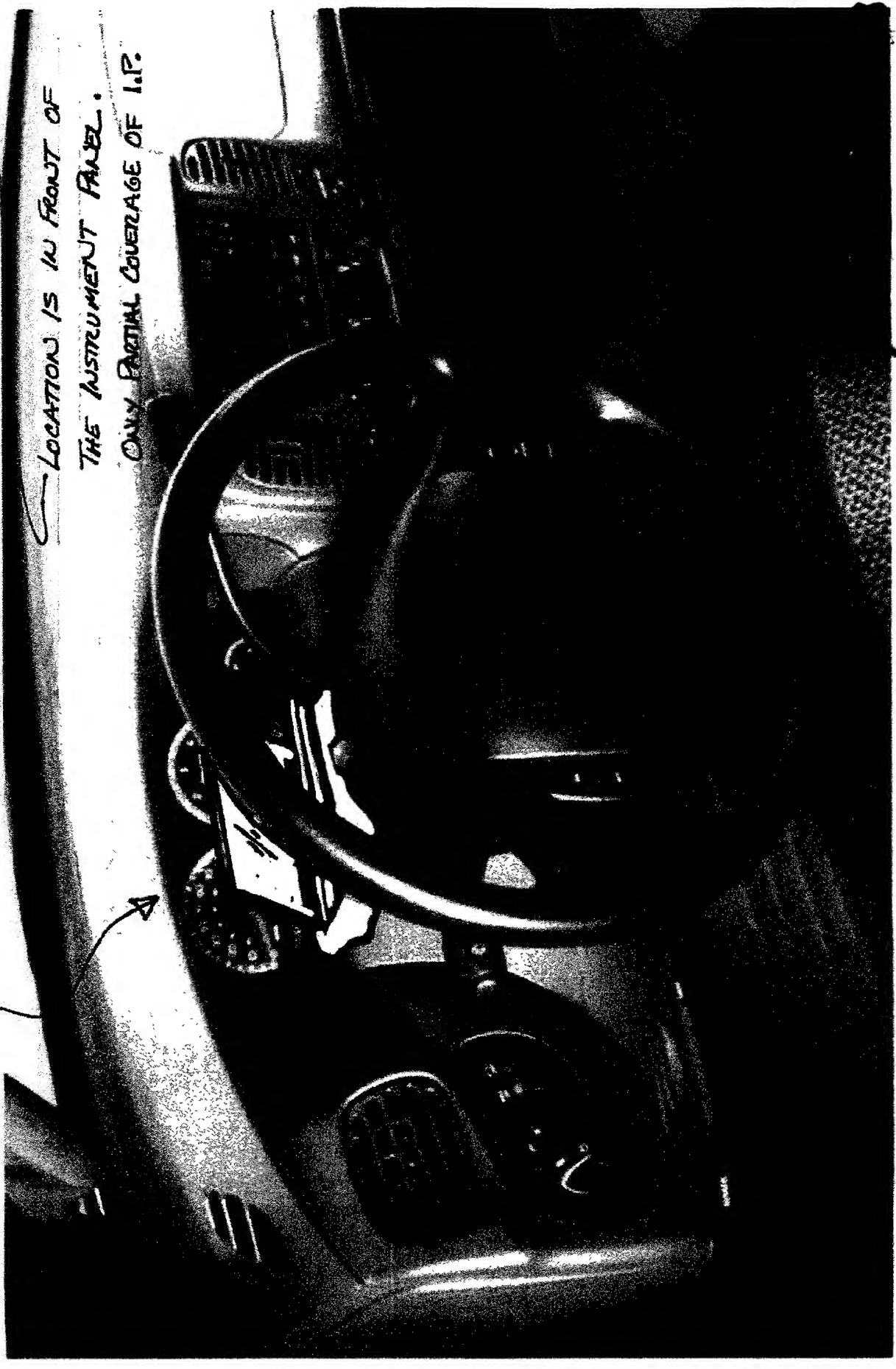
VEHICLE SPECIFIC SHOWN OR UNIVERSAL FND M.O. System © Raven Products 01.28.01



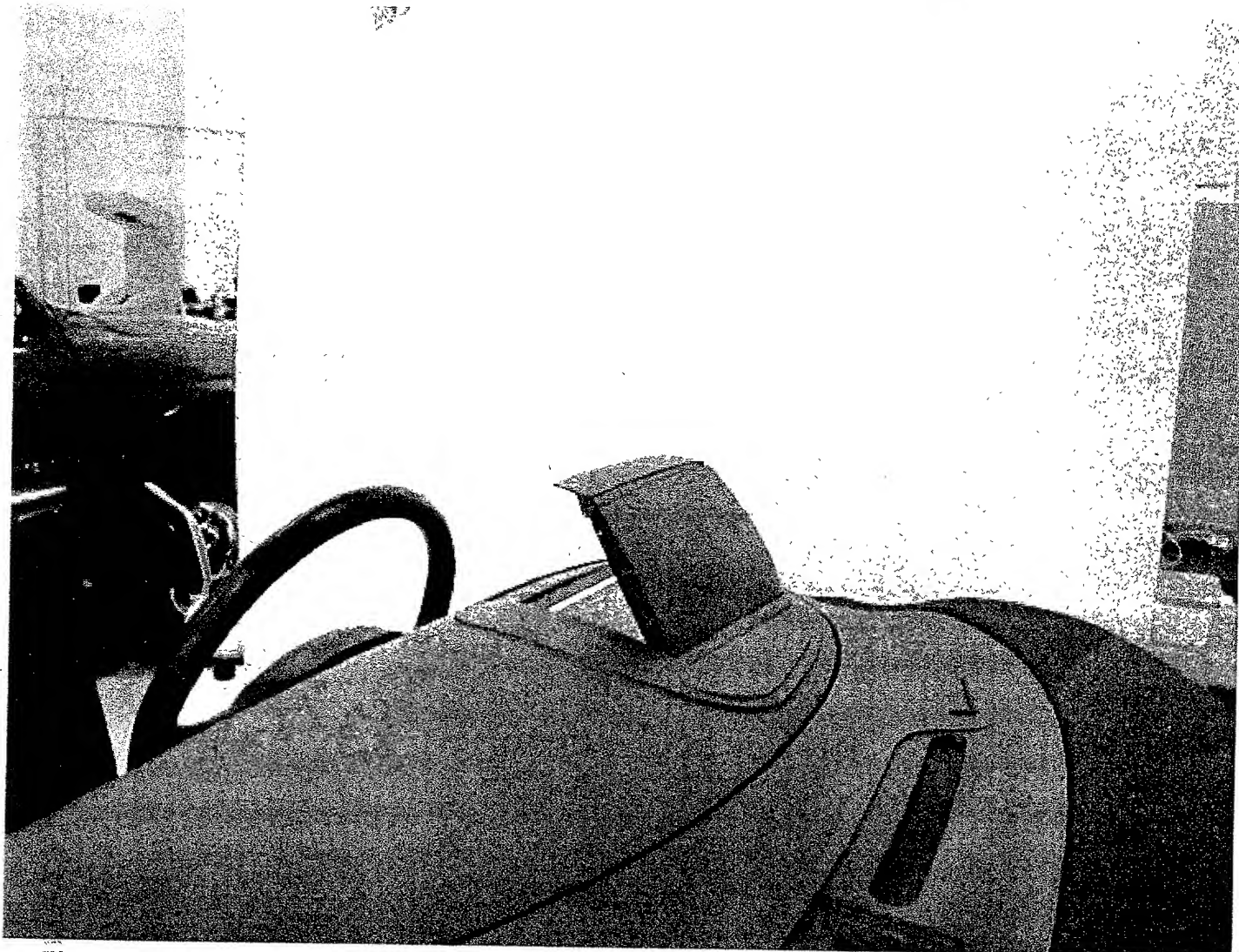
"SMALL FORM FACTOR" FLS MONITOR ... FOR APPLICATIONS WHERE THE OPTIMUM

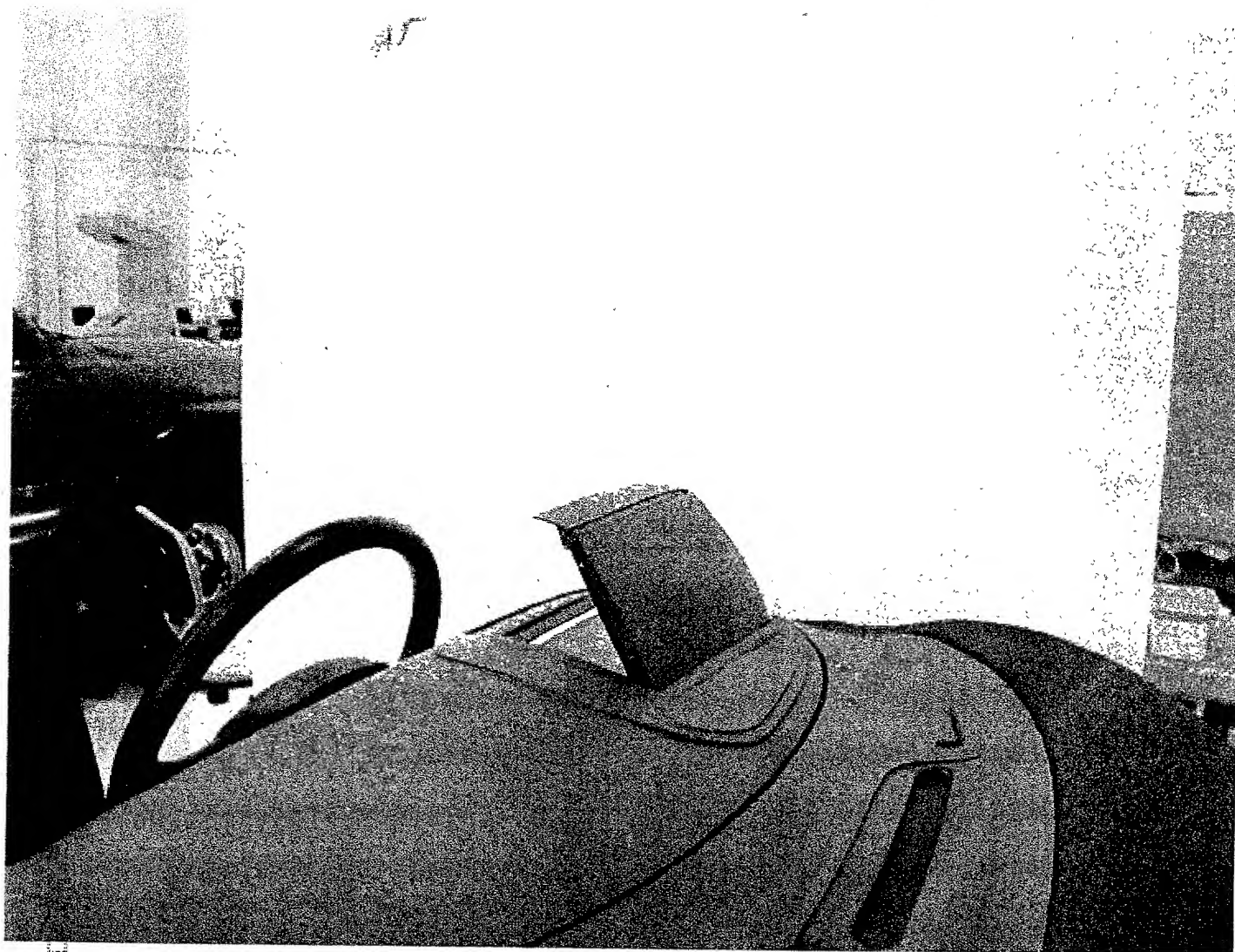
12

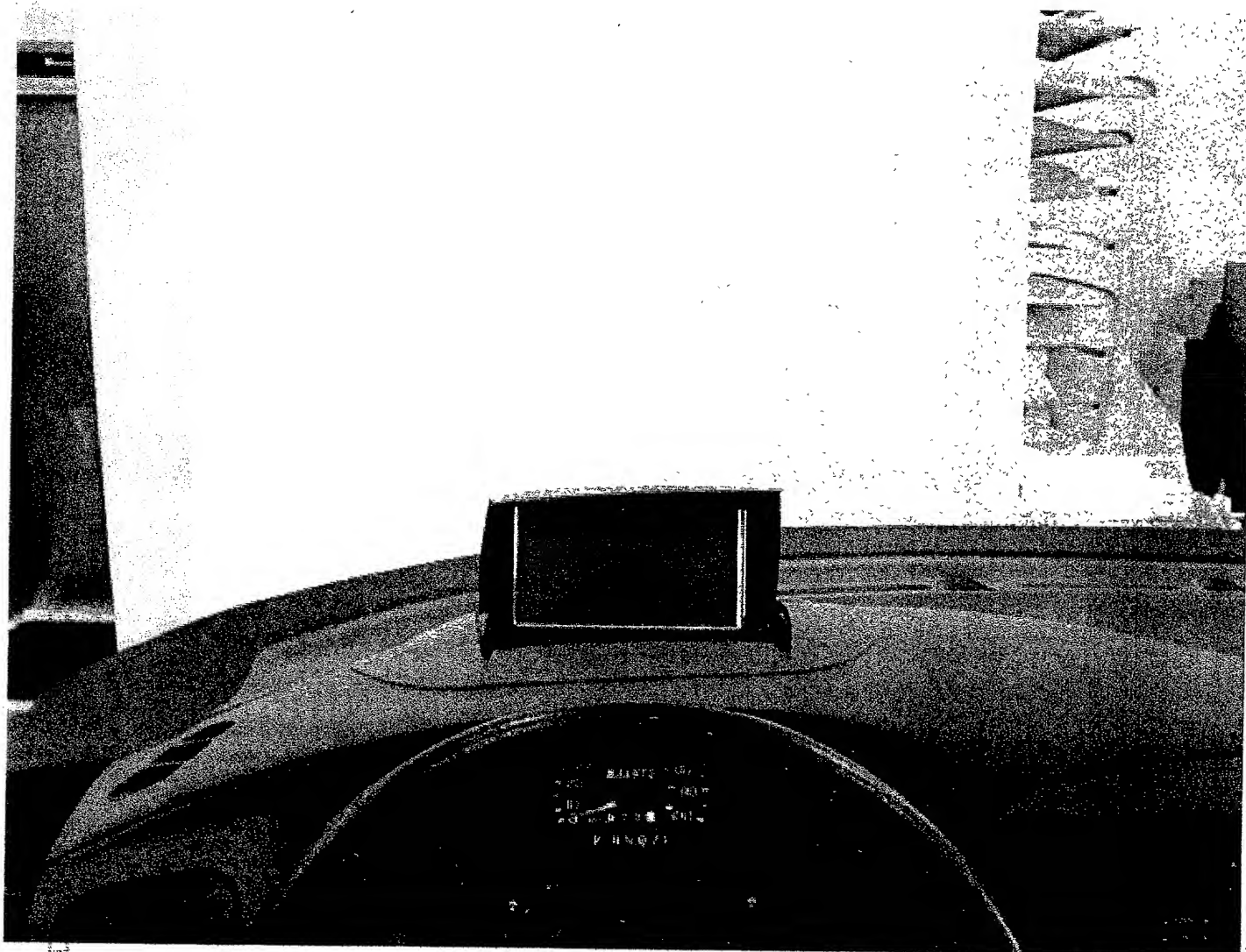
LOCATION IS IN FRONT OF  
THE INSTRUMENT PANEL.  
ONLY PARTIAL COVERAGE OF I.P.

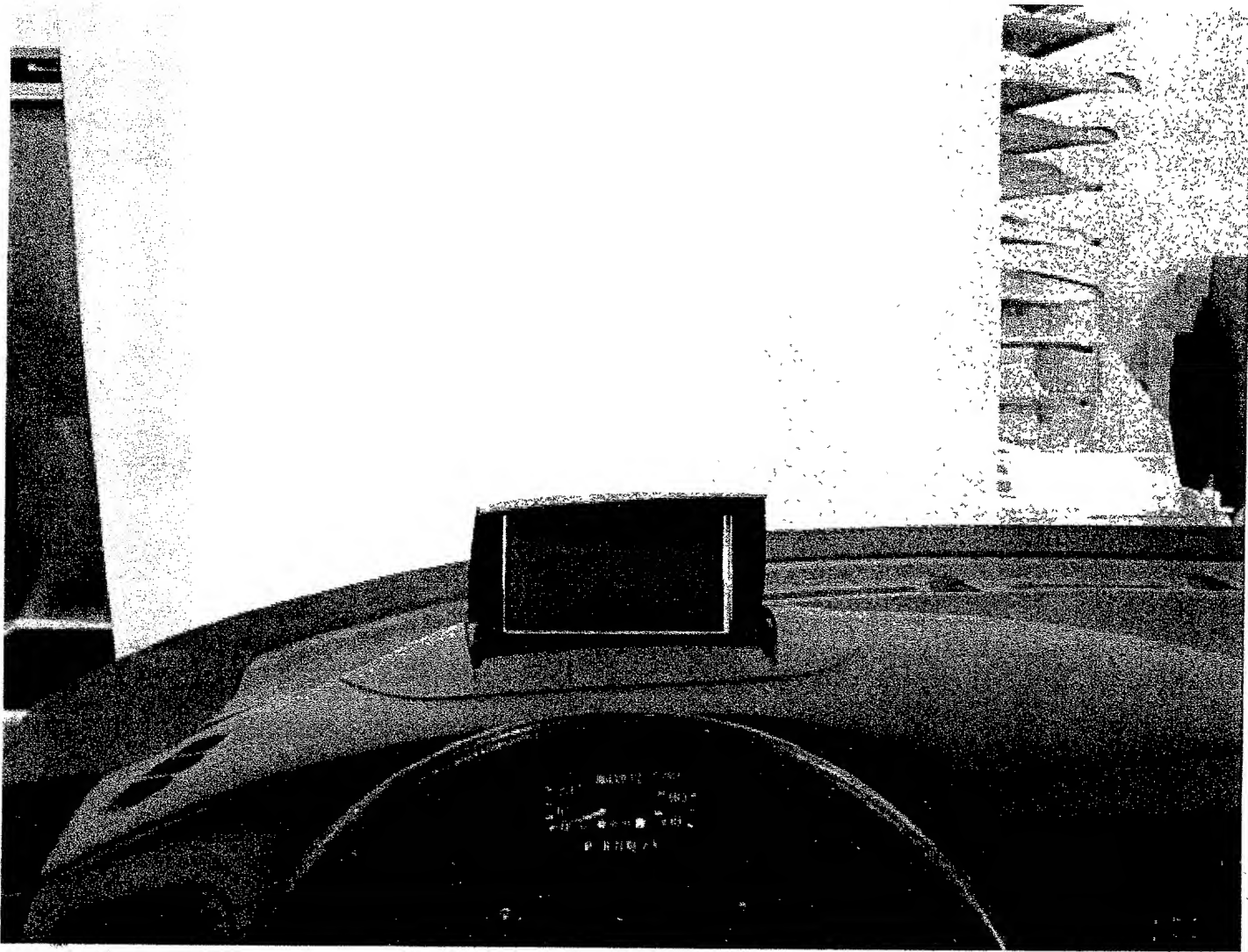


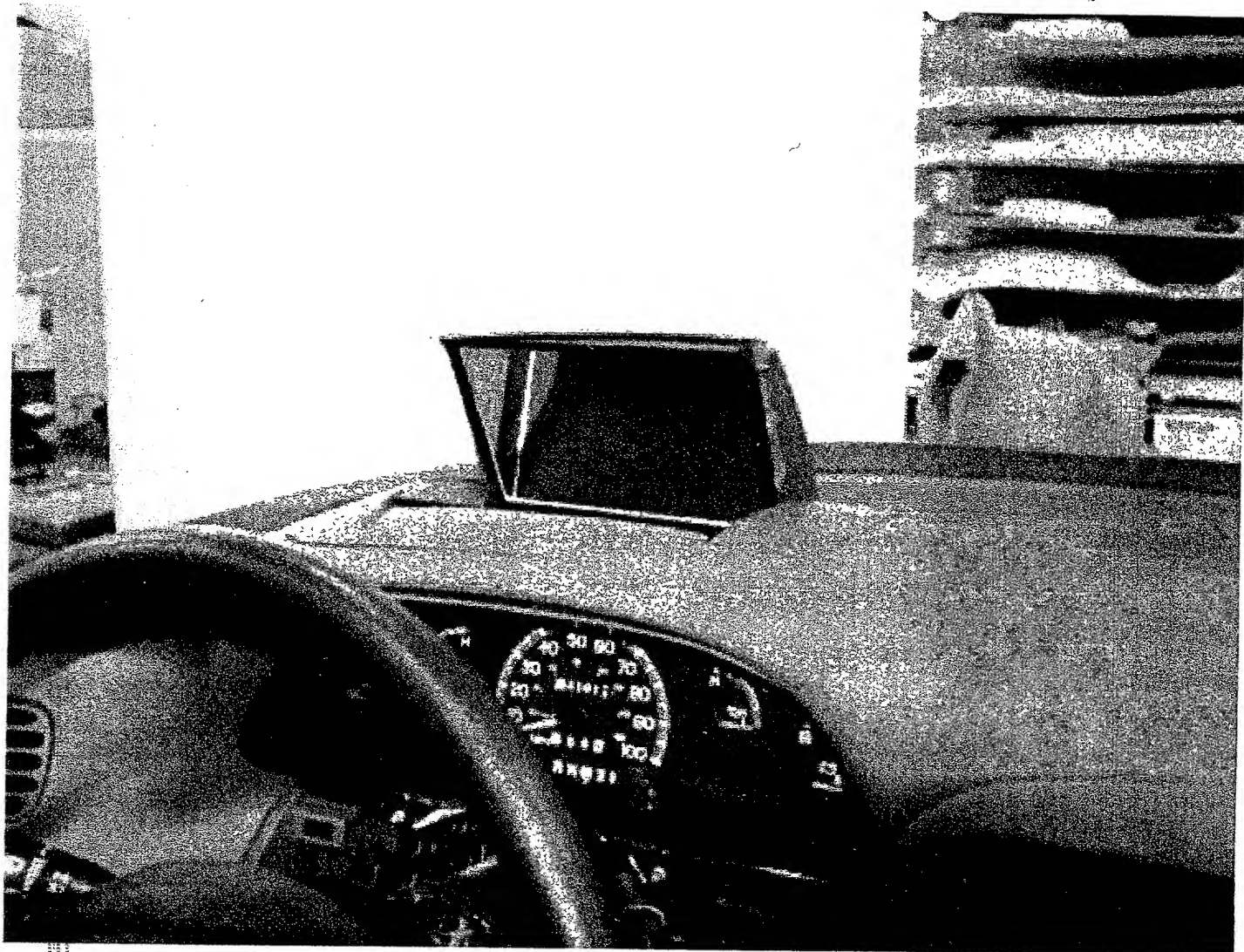
VEHICLE SPECIFIC SHOWN OR UNIVERSAL FOR MA. SYLVE & ROSEN PRODUCTS 01.28.01



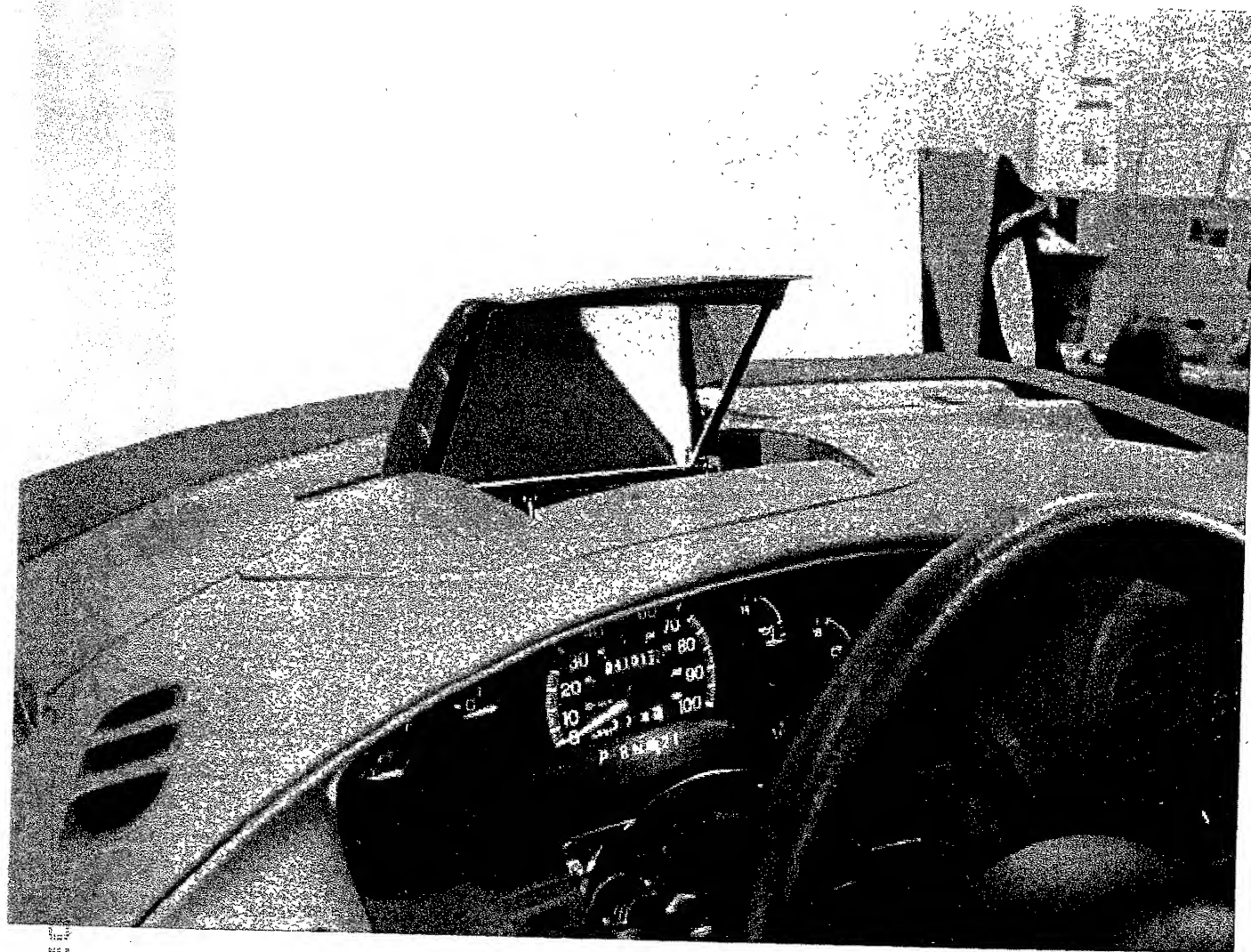


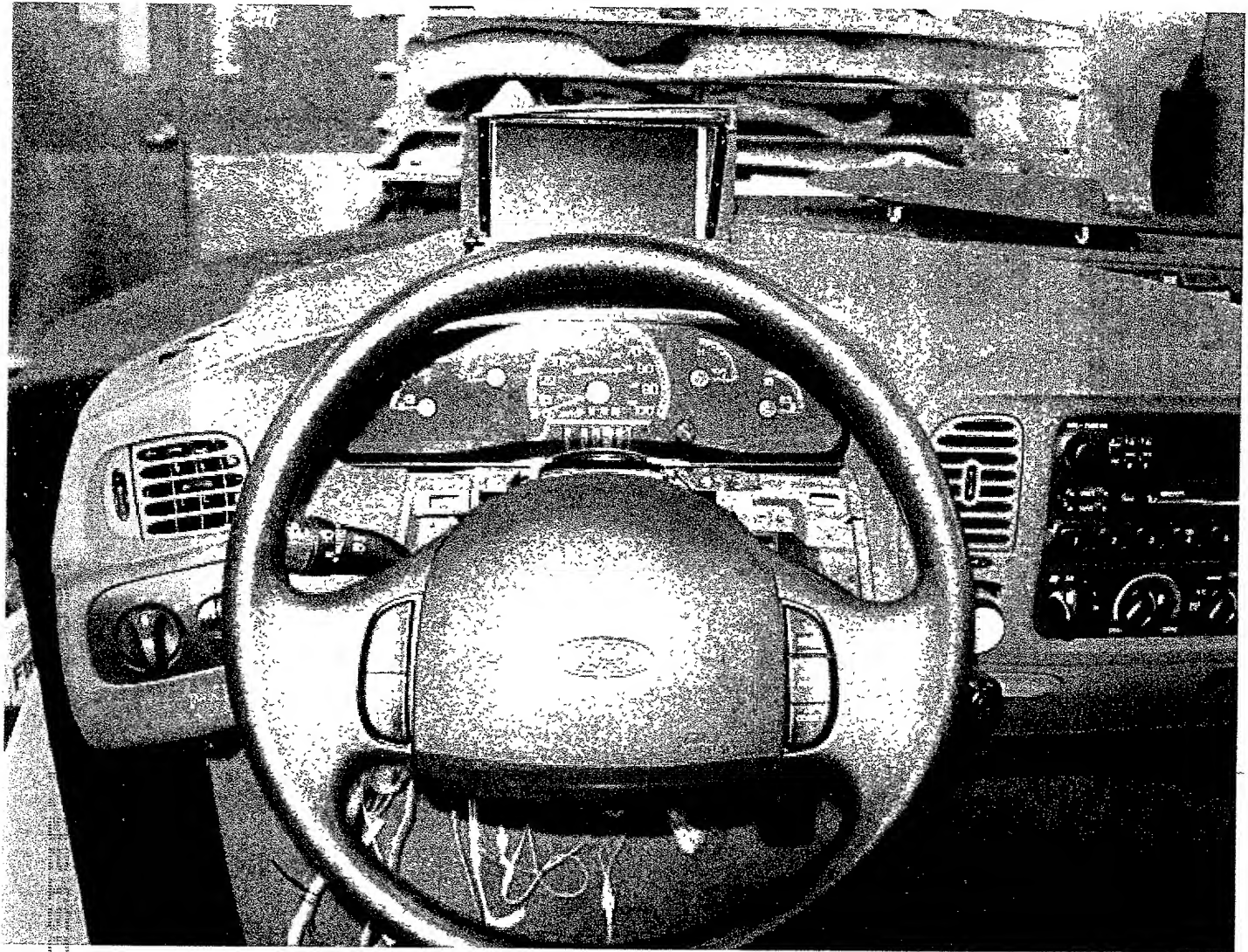


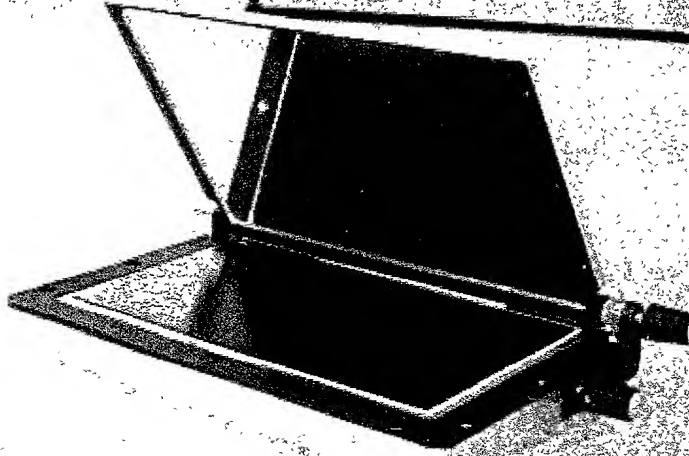


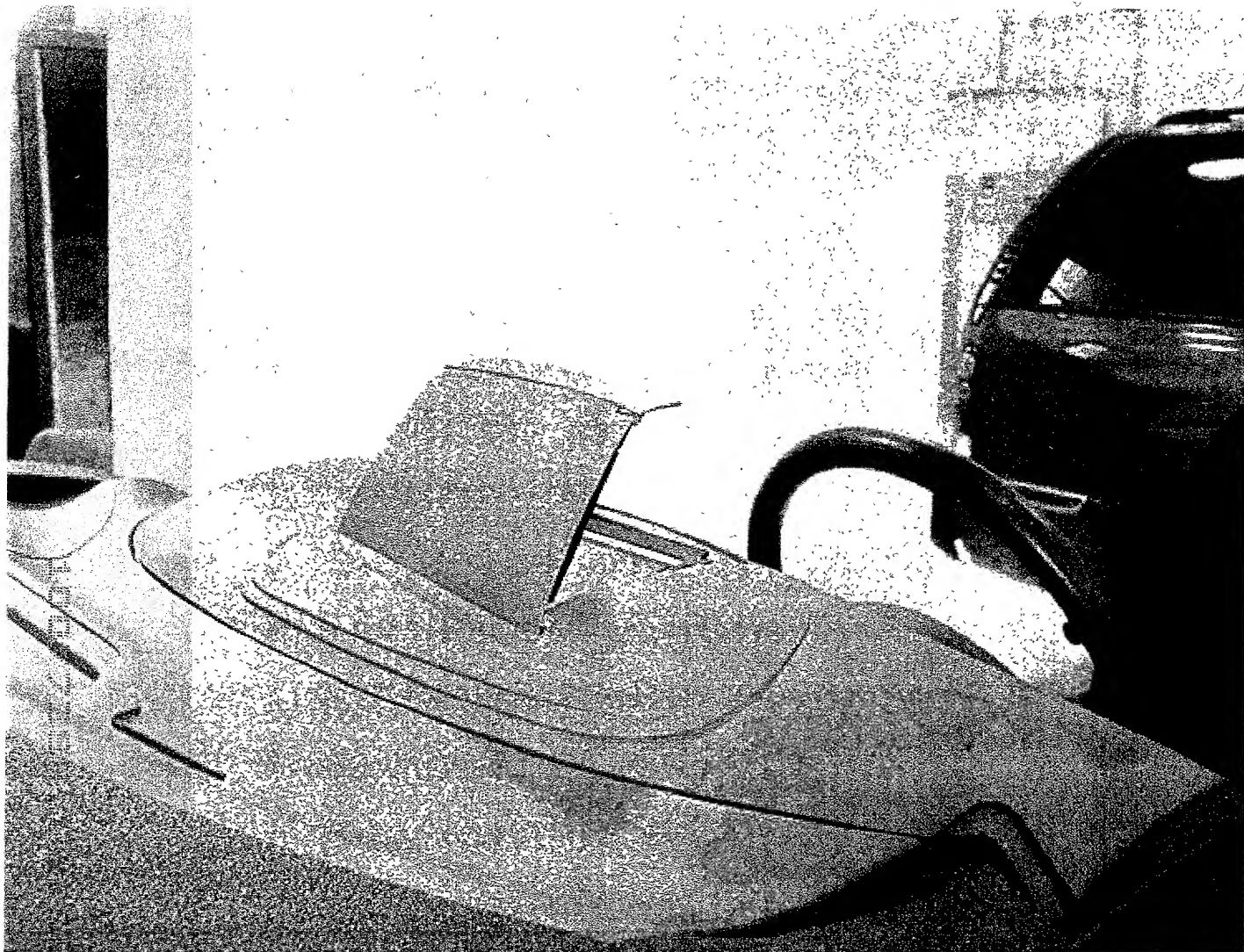




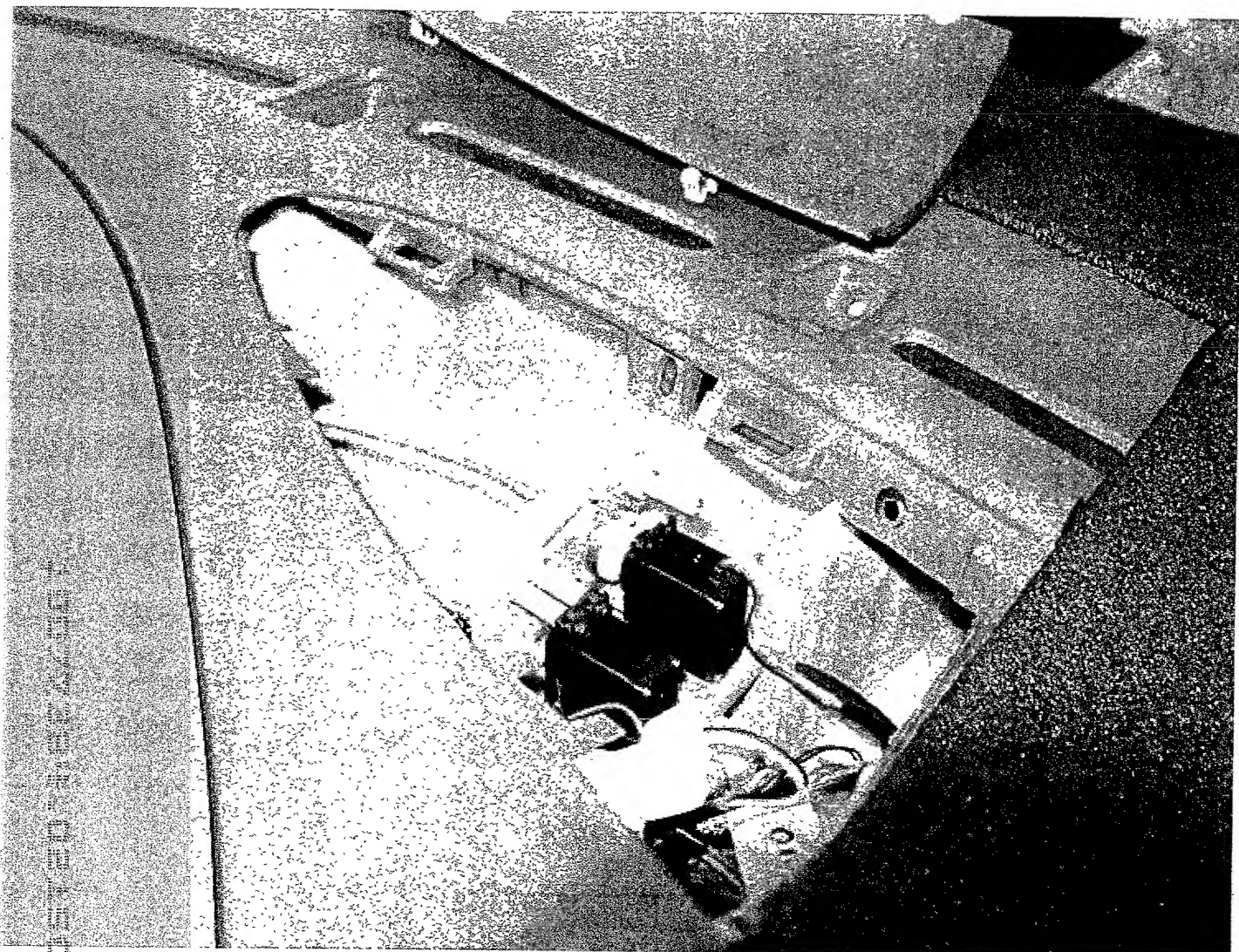


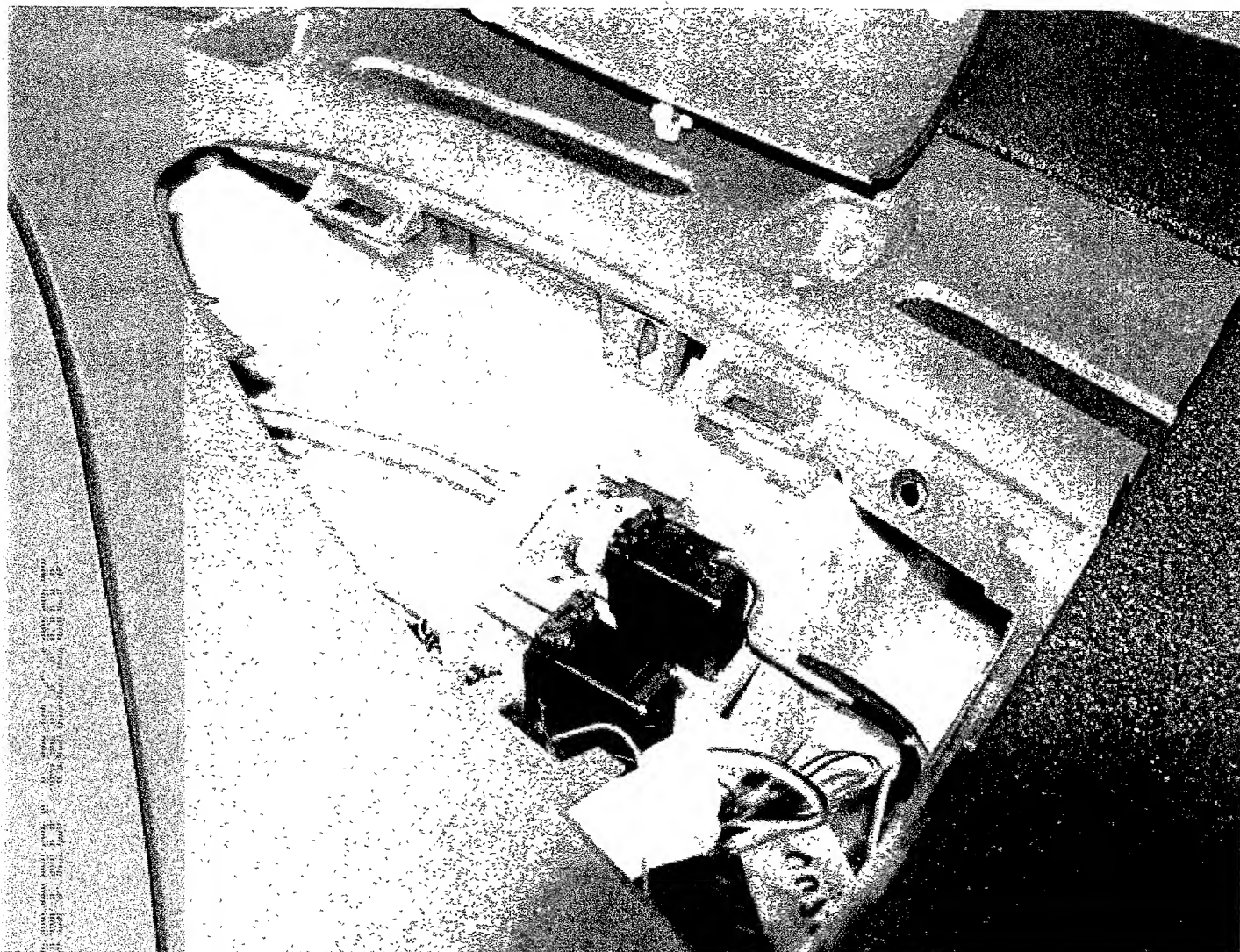




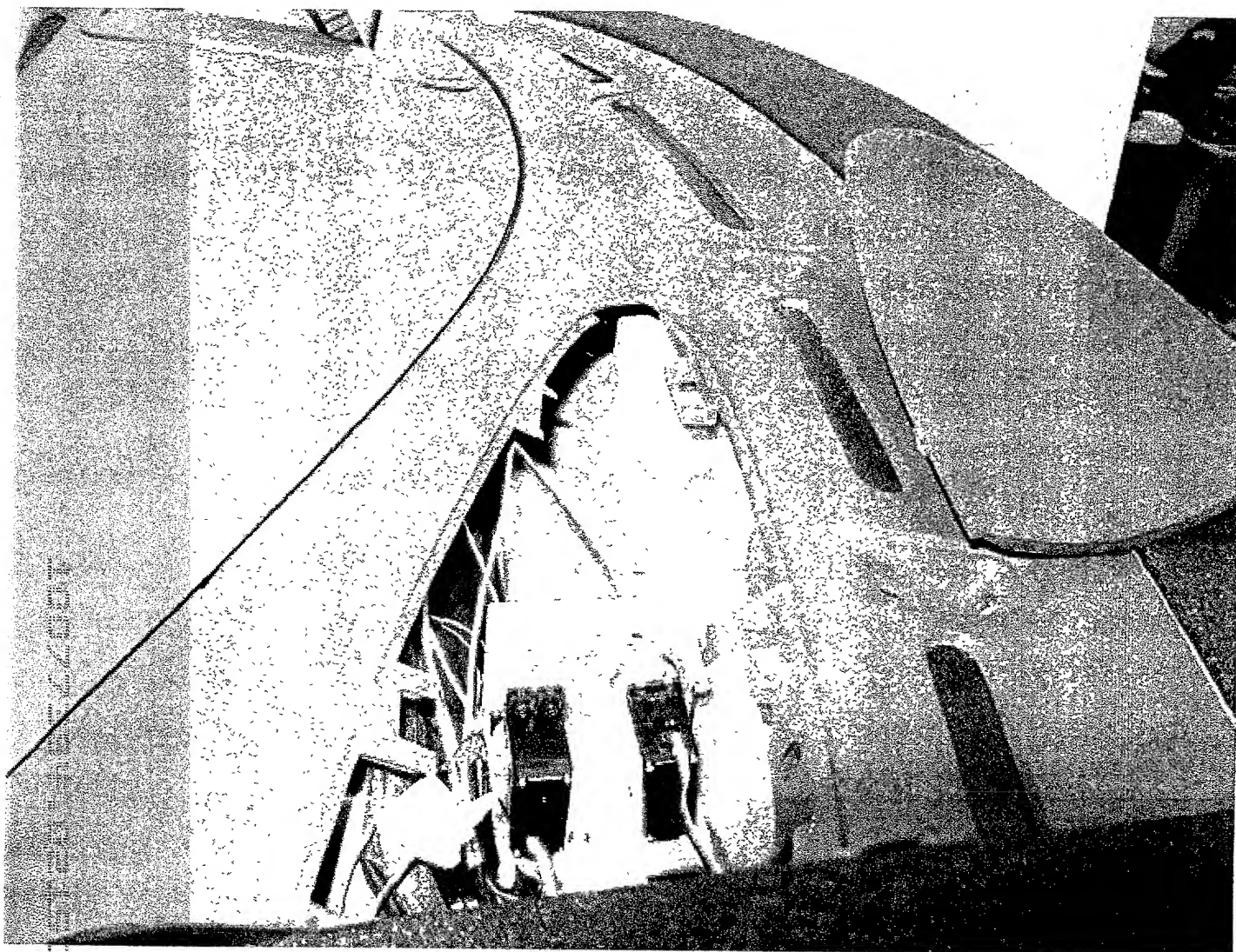


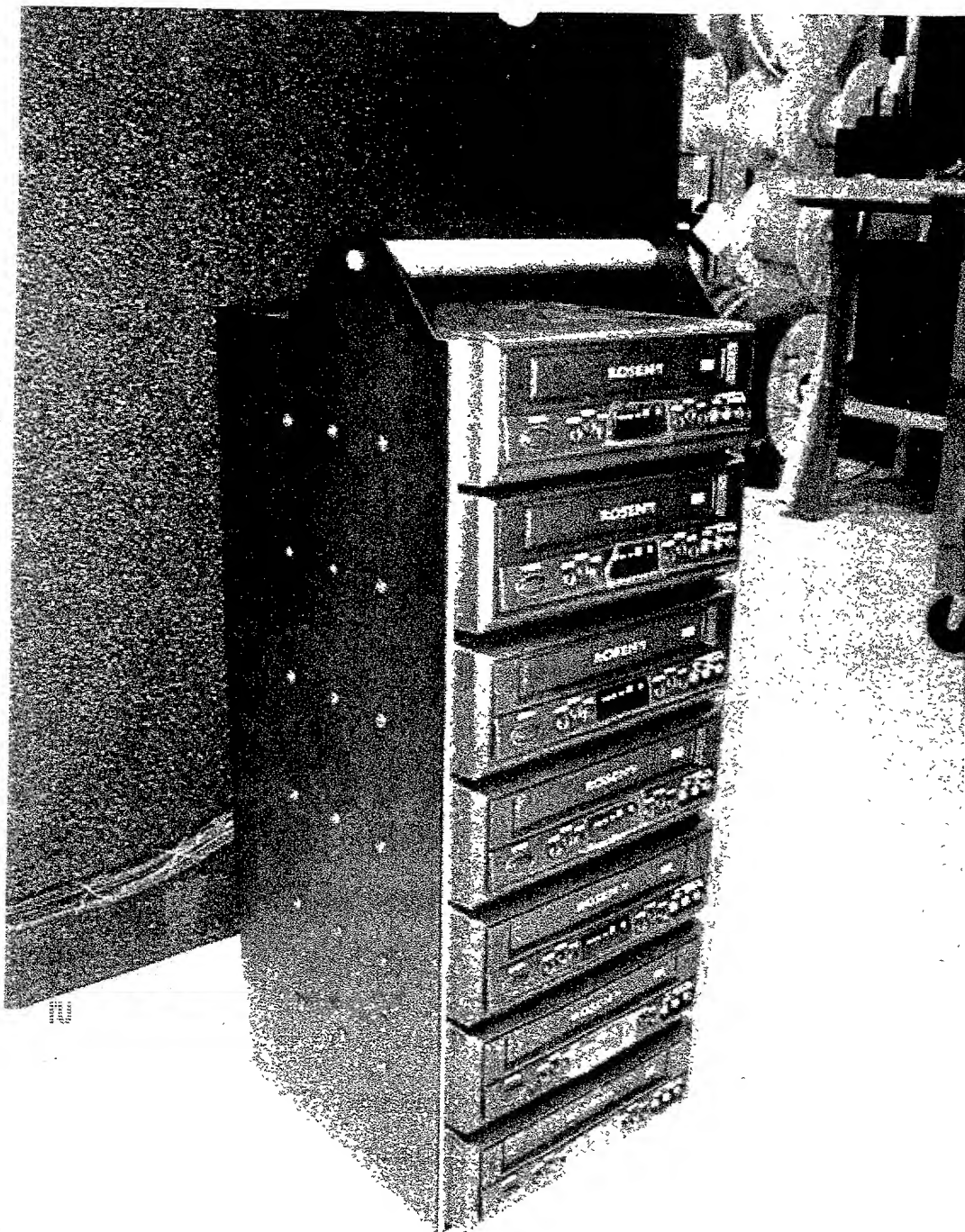








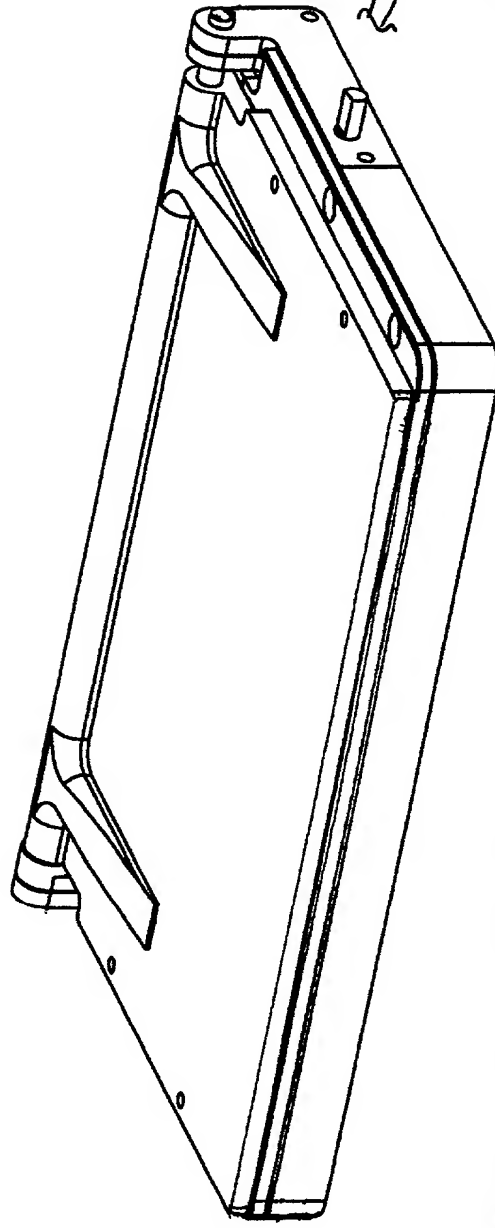




○ FLS MONITOR ... SMALL COMPACT CHASSIS ASSEMBLY WITH VERSATILE MULTI-APPLICATION DESIGN

○ FLS POD ... VEHICLE SPECIFIC INTEGRATION COMPONENTS  
DASH  
SHROUD, BASIN,  
COVER, HOOD (S)

1



○ ROSEN PRODUCTS FLS SYSTEMS

- MULTIPLE CAMERAS ... BLIND SPOTS, REAR VIEW, ETC.  
TRAILER VIEW
- GPS

○ INFRARED CAMERA (S)

- E-MAIL + WEB BROWSING

○ ENTERTAINMENT - INFOTAINMENT

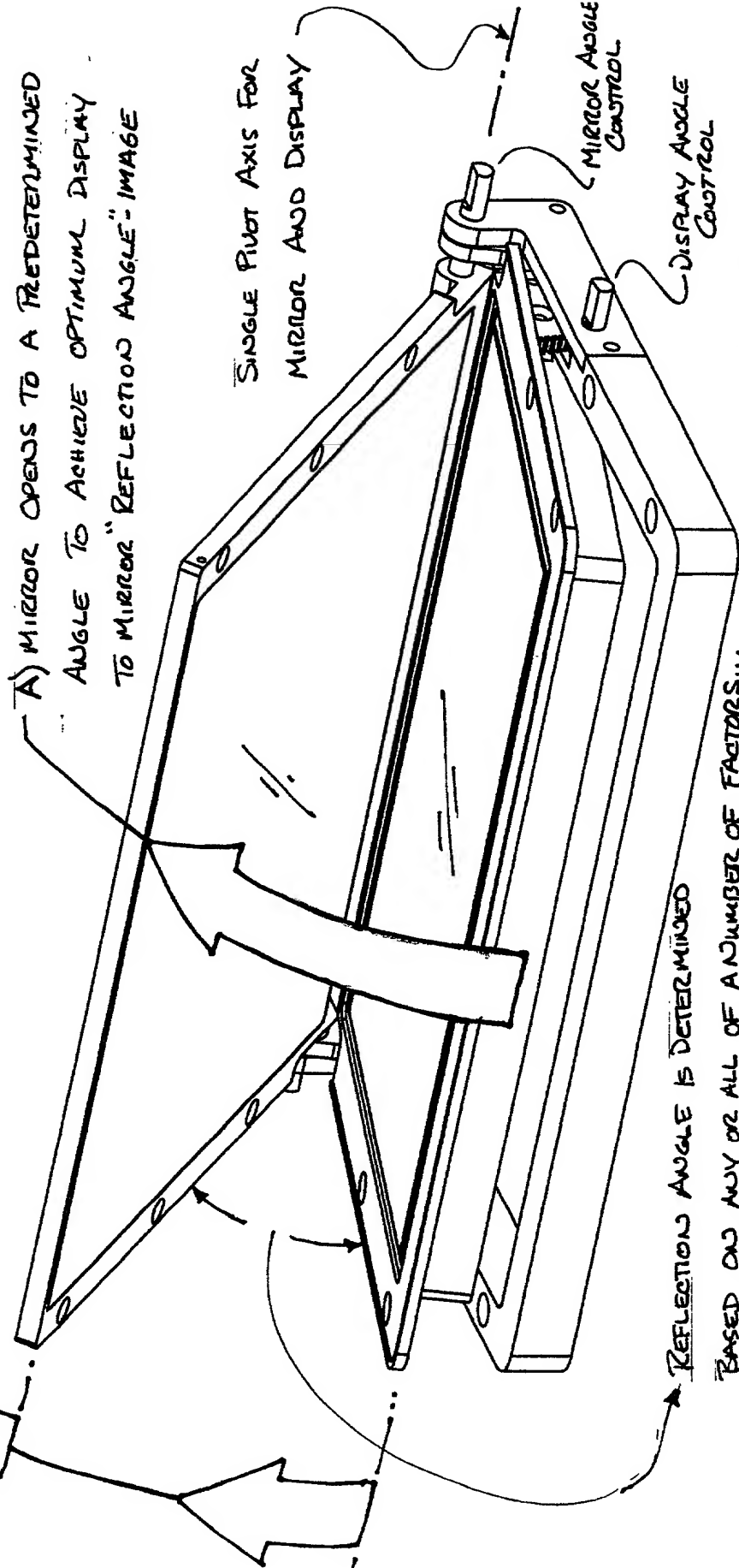
- IMAGE RECORDING
- ETC.

REMOTE DESIGN  
MOTOR DRIVE  
MANUAL DRIVE

## 0 FLS MONITOR ... INTENT OF MOVEMENT(S) ... 2 STAGE TYPE

2

B) ONCE MIRROR IS OPEN ... THE MIRROR AND THE DISPLAY ARE ADJUSTED AS A SUBASSEMBLY (CONSTANT-FIXED REFLECTION ANGLE) TO POSITION THE FLS MONITOR INTO THE OPTIMUM "VIEWING ANGLE" FOR ANY SPECIFIC DRIVERS (VIEWERS) EYE POSITIONS IN ANY TYPE OF APPLICATION



REFLECTION ANGLE IS DETERMINED

BASED ON ANY OR ALL OF A NUMBER OF FACTORS...

- DISPLAY TYPE, SIZE, QUALITY - MIRROR TYPE, SIZE, QUALITY, SHAPE, POSITION RELATIVE TO THE DISPLAY

- ANY LIGHT &/OR IMAGE ENHANCING FILMS USED

MR. Taylor & CONTROLLING

Rosen Products 01.29.01

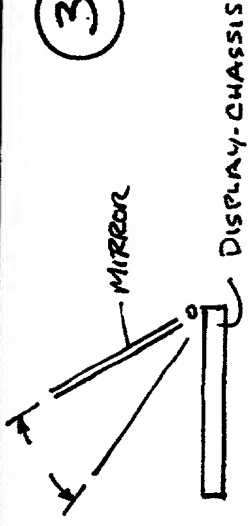
ORIENTATION

# FLS MONITOR ... MOVEMENT VARIATIONS

3

A) SIMPLEST DESIGN = FIXED DISPLAY WITH ADJUSTABLE MIRROR

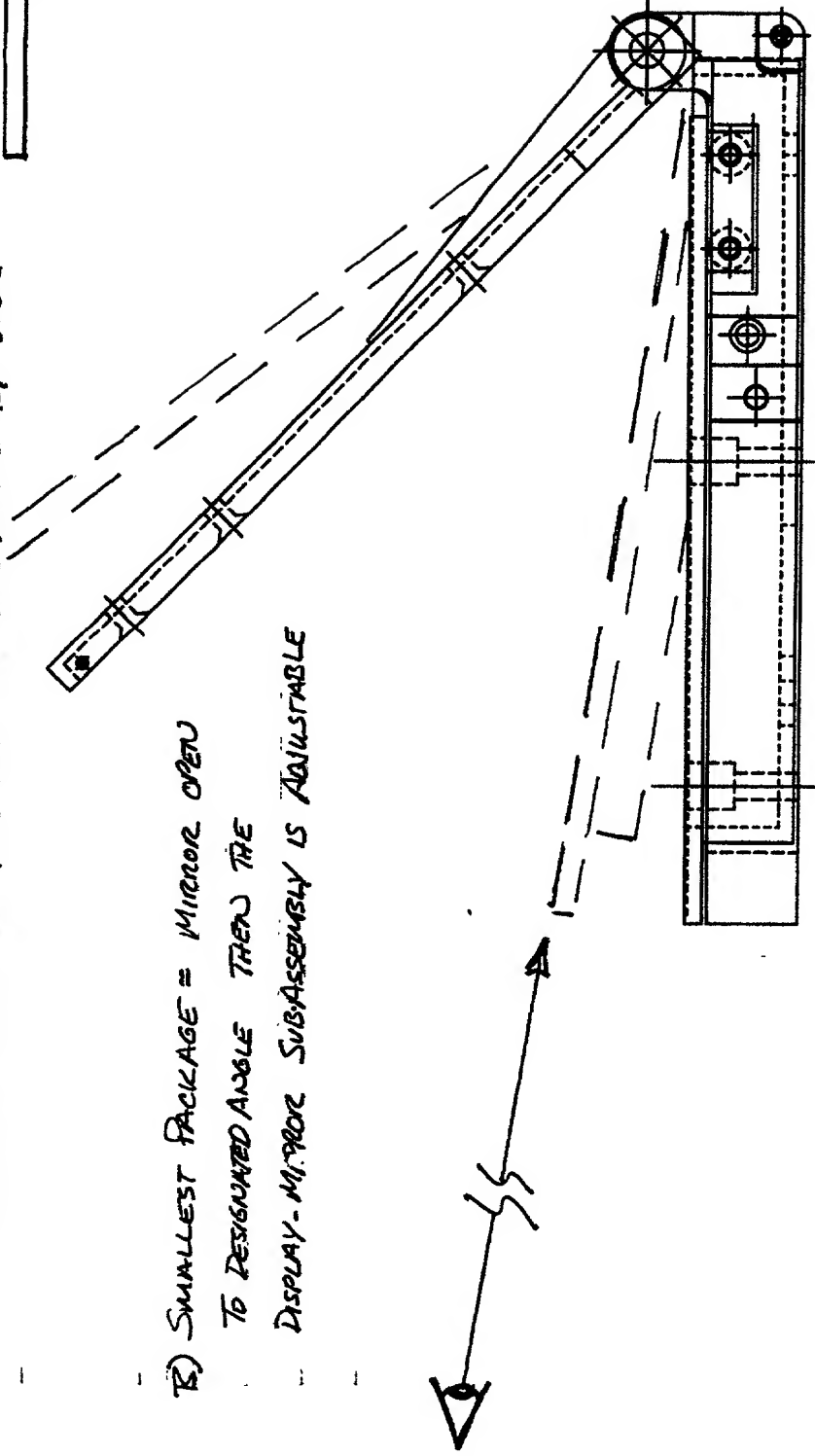
- MIRROR IS ADJUSTED FOR BEST VIEWING ANGLE BY USER



B) SMALLEST PACKAGE = MIRROR OPEN

TO DESIGNATED ANGLE THEN THE

DISPLAY-MIRROR SUBASSEMBLY IS ADJUSTABLE

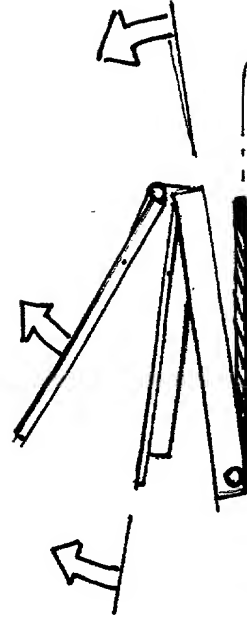


C) HIGH LIFT CHASSIS OPTION = MIRROR, DISPLAY, AND

CHASSIS ARE ADJUSTABLE TO HELP POSITION THE

MIRROR INTO THE OPTIMUM POSITION IN THE FIELD

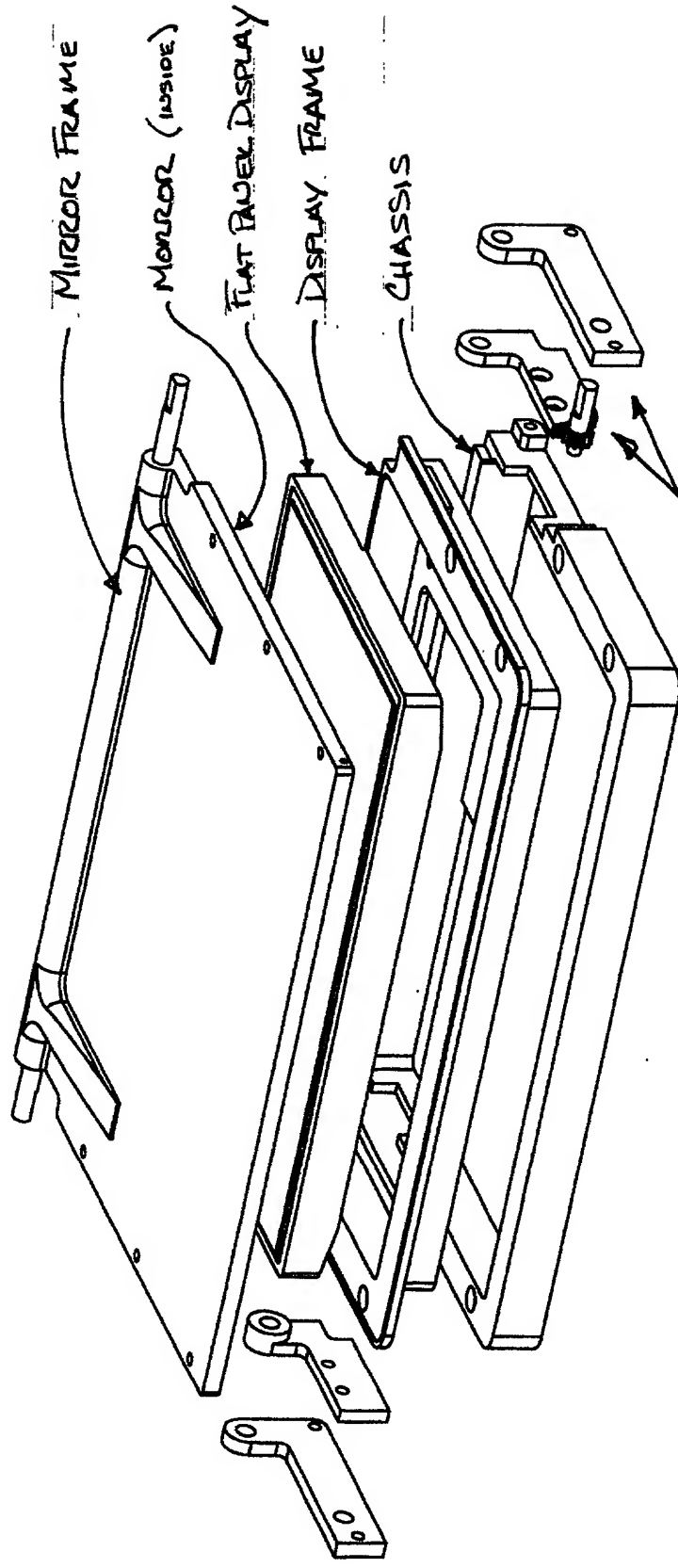
OF VIEW



4  
O FLS (FORWARD LOOKING SAFETY) MONITOR ... 2 STAGE TYPE

2nd GENERATION DEVELOPMENTAL PROTOTYPE - CONCEPT MODEL

AS MACHINED AND ASSEMBLED 01.10.01 FOR CONTINUED DEVELOPMENT.



NOTE: ACTUAL DRIVE MECHANISM &/OR DRIVE TRAIN MECHANISM

MAY BE FULLY INTEGRATED INTO THE MONITOR, A COMBINATION

OF PART INTEGRATED AND PART REMOTE, OR COMPLETELY REMOTE.

THE DRIVE CAN BE ANY TYPE LIKE ... SPRING LOADED, ELECTRIC MOTOR,

PNEUMATIC, MANUAL ... BASED ON PRICE POINTS AND APPLICATION(S).

M.O. System &  
Rasen Products 01.29.01



NOTE: POSSIBLE MIRROR FACE CONTOURS STILL BEING RESEARCHED + DEVELOPED

5



CONCAVE



CONVEX



FLAT (CURRENT PHOTO)



FLAT TO CONVERGE



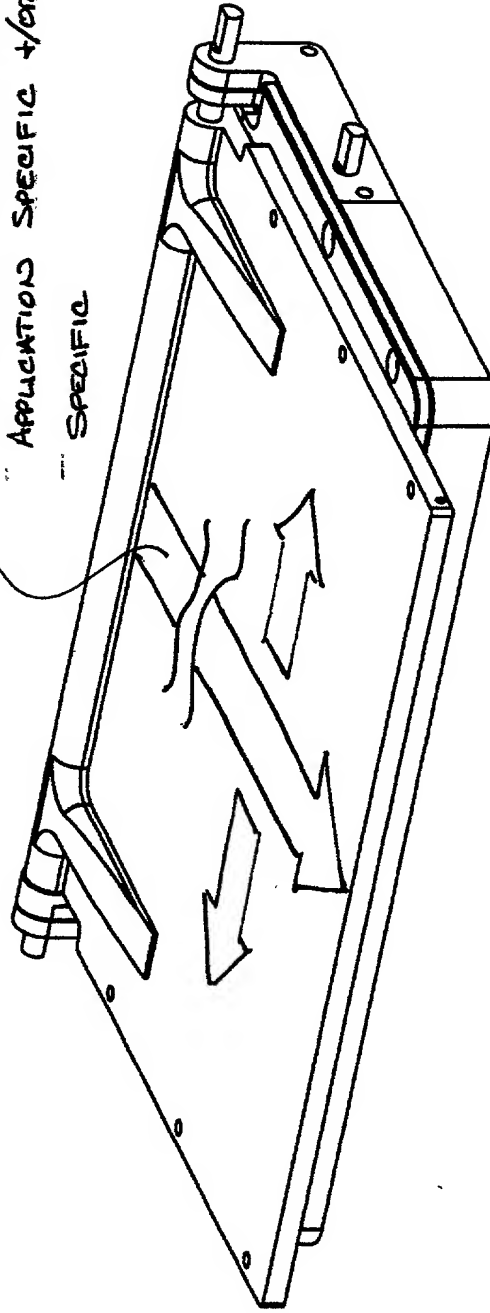
FLAT TO DIVERGE

\* NOTE: ACTUAL MIRROR PERIMETER SHAPE MAY VARY AS WELL FOR UNIQUE APPLICATIONS - WITH OR WITHOUT A COMPLEX MIRROR FACE CONTOUR. TYPICAL GOAL IS TO END UP WITH A CLEAN + TRUE REFLECTIVE IMAGE



\* THE REASONING FOR EXPERIMENTING WITH MIRROR FACE CONTOURS WOULD BE TO SEE IF A LARGER MIRROR COULD BE USED WITH A SMALLER DISPLAY.

MIRROR SIZE AND SHAPE MAY BE APPLICATION SPECIFIC +/OR IMAGE SPECIFIC



OFLS MONITOR ... MIRROR VARIATIONS THAT MAY BE POSSIBLE

McGraw-Hill © Reim Products 01.29.01

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o FLS Pod ... Hood, Shroud, Cover, Basin (Shroud may have integrated basin, too)

CHALLENGES - Positioning ... Closed + Open

- Mounting

- Articulation + Clearance(s)

Hood (Articulated)

Cover

"Fixed Cover" with

Single Foot Show

and Applied to 01.10.01 Model

Shroud

Shroud

Shroud Basin

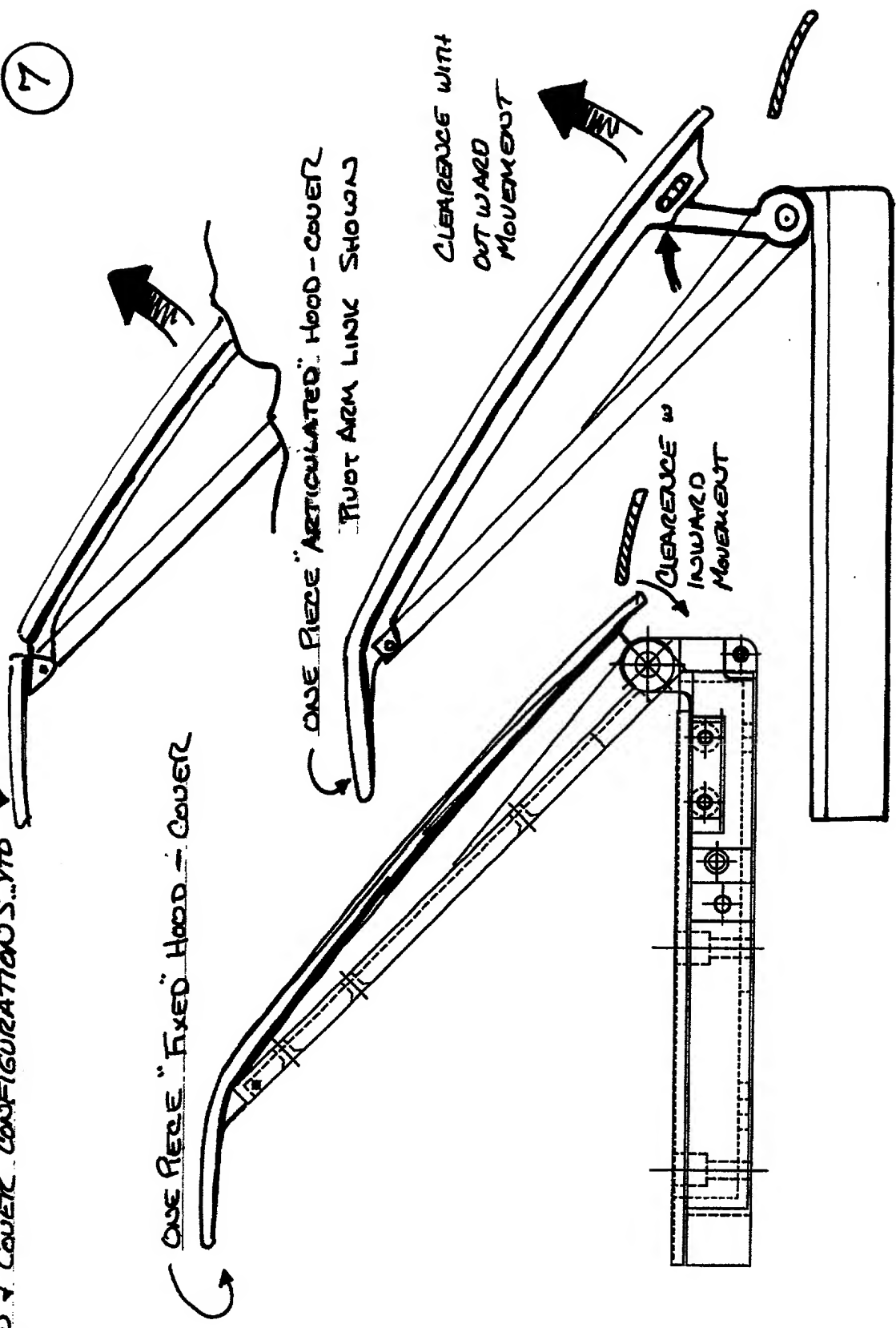
W.A. Sykes & Rosen Products 01.28.01

DATE: 01/25/01  
BY: M.O. Snyder  
TITLE: HOOD & COVER CONFIGURATIONS.YTD

ARTICULATED HOOD WITH "ARTICULATED" COVER

7

ONE PIECE "FIXED" HOOD - COVER

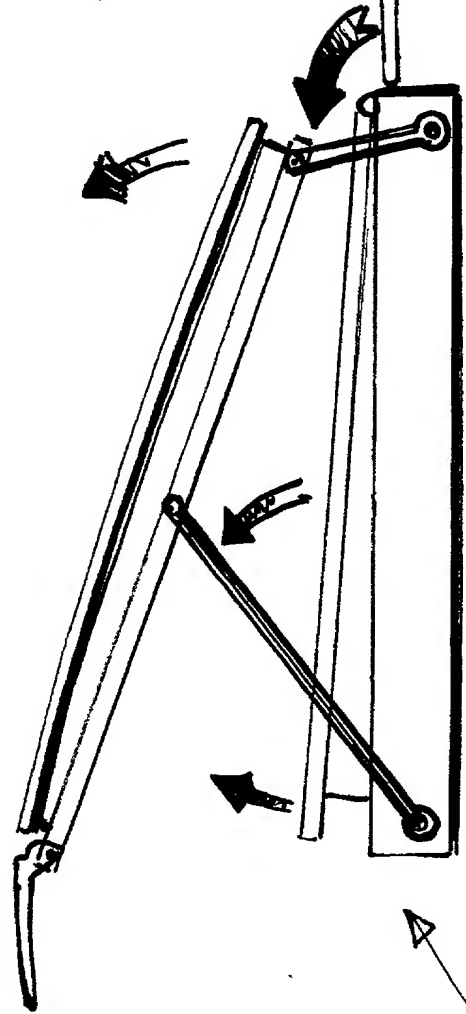


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o FLS ... POTENTIAL MULTI-LINK COMPONENT ORIENTATION TO BETTER FIT VEHICLE SPECIFIC APPLICATIONS

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SINGLE PIVOT DISPLAY + MIRROR WITH MULTI-LINK  
COVER ARTICULATION



SINGLE PIVOT DISPLAY WITH MULTI-LINK MIRROR - COVER LIFT

UNEVEN STATE MULTI-LINK MIRROR + COVER ARTICULATION

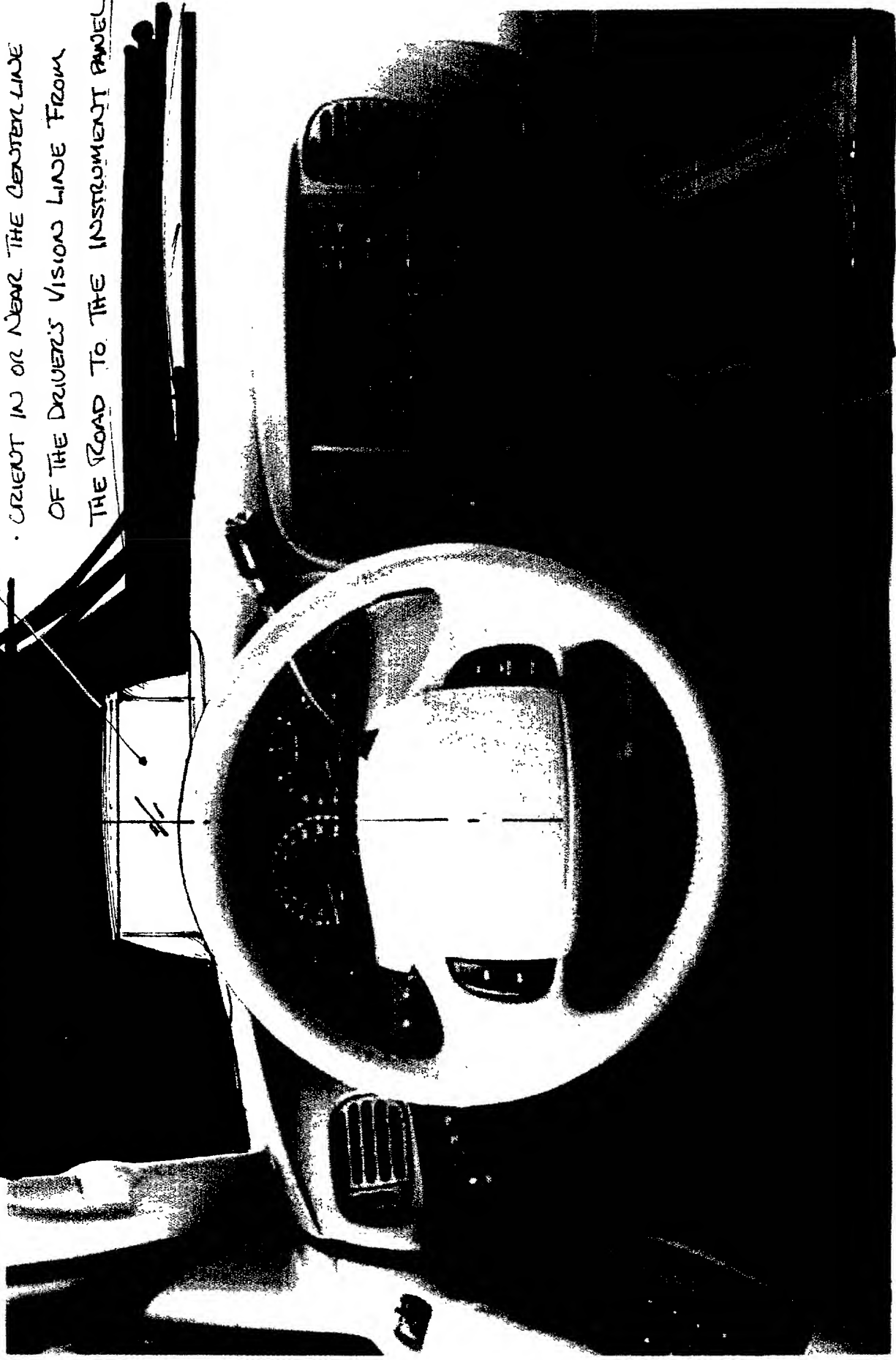


Mr. Fisher & Kasey Products 01-28-01

FLS MONITOR POSITION - DRIVER



9 IN-LINE LASH MOUNT - VARIOUS SIZES



- ORIENT IN OR NEAR THE CENTER LINE OF THE DRIVER'S VISION LINE FROM THE ROAD TO THE INSTRUMENT PANEL

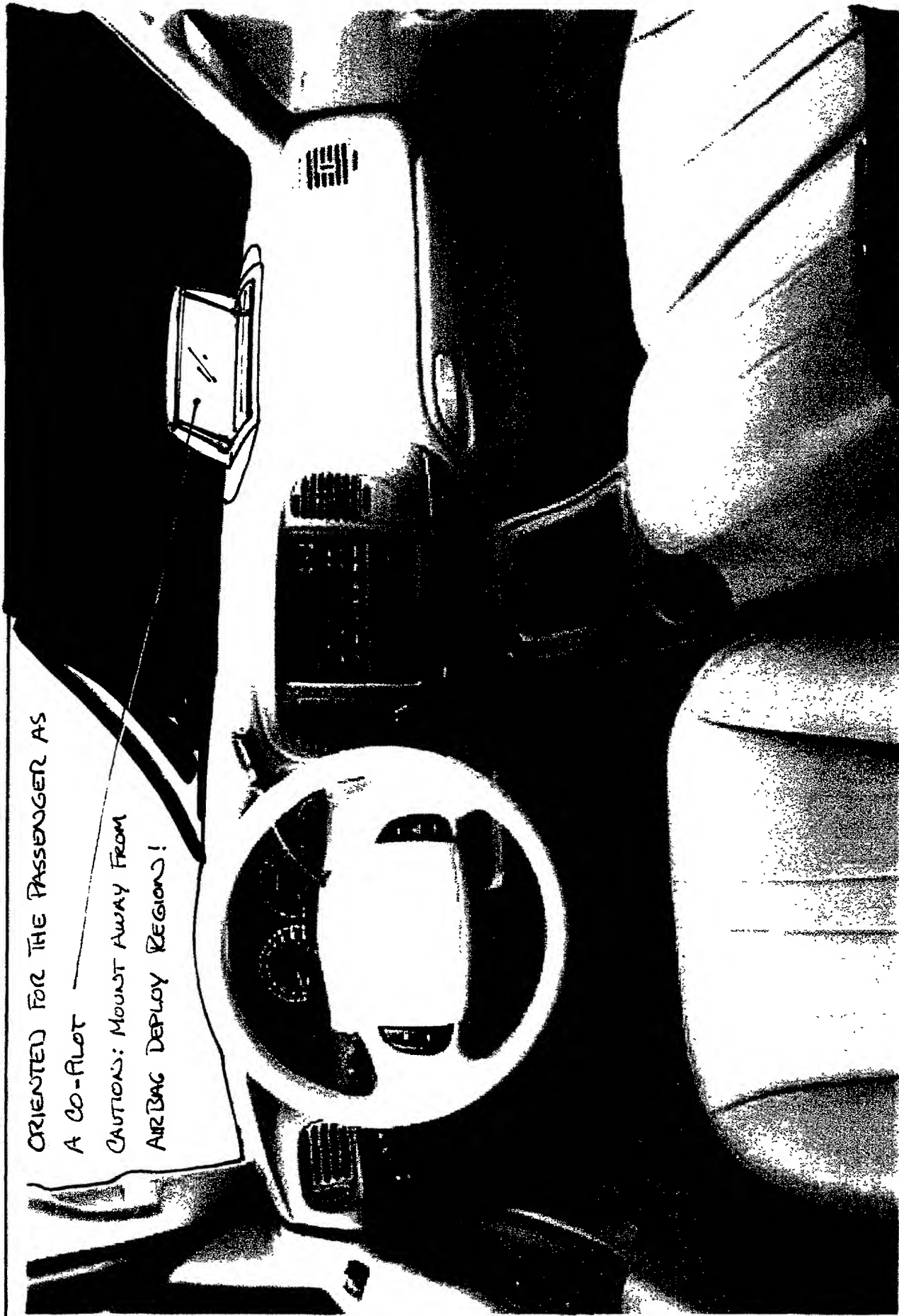
VEHICLE SPECIFIC INSTALLATION SHOWN

MR. Snyder & Rosen Products Dr. 29.01

ORIENTED FOR THE PASSENGER AS

A CO-PILOT

CAUTION: MOUNT AWAY FROM  
AIRBAG DEPLOY REGIONS!



VEHICLE SPECIFIC SHOWN

M.O. Lytle & Rosen Products 01.29.01



"Small Form Factor" FLS

POSITIONING AS NOT TO COVER UP  
ALL OF THE I.P. FUTURE... DISPLAY  
MAY SHOW SPEED + TRACK INFO  
AS GRAPHICS



VEHICLE SPECIFIC SHOWN OR UNIVERSAL FND

M.D. Sykes © Rosen Products 01.28.01

"SMALL FORM FACTOR" FLS MONITOR... FOR APPLICATIONS WHERE THE OPTIMUM

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LOCATION IS IN FRONT OF  
THE INSTRUMENT PANEL.  
ONLY PARTIAL COVERAGE OF I.P.



VEHICLE SPECIFIC SHOWN OR UNIVERSAL POD M.A. Sykes & Rosen Products 01.29.01

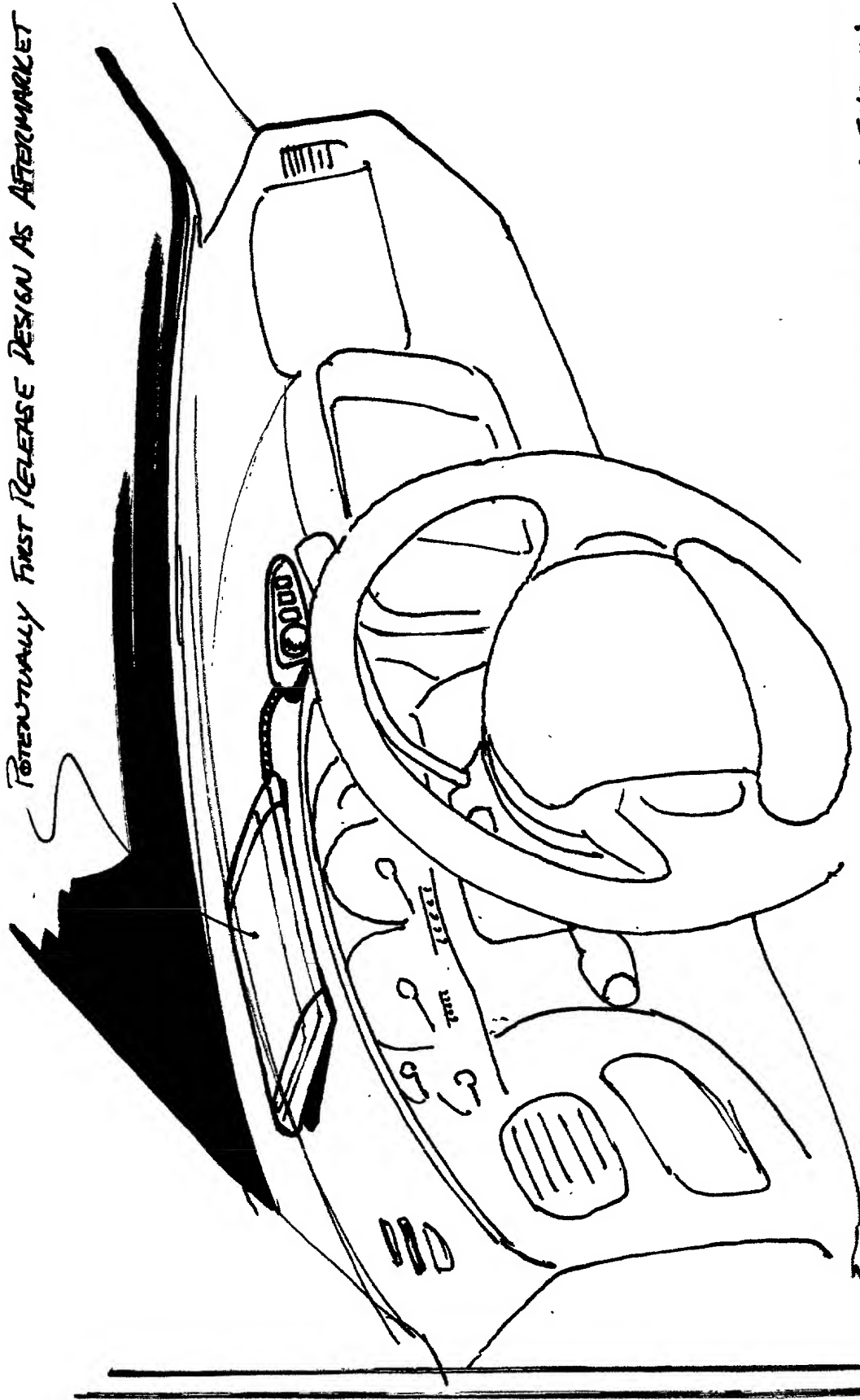
13

0 FLS Monitor And Control Pods... Show As Surface Mount - "Universal"

NOTE: THE EXTRA CONTROL-DRIVE MECHANISM + P.C. BOARDS CAN BE MOUNTED

AS ITS OWN POD REMOTELY UNDER THE DASH

POTENTIALLY FIRST RELEASE DESIGN AS AFTERMARKET



UNIVERSAL INSTALLATION SKETCH

M.O. Sykes © Rose Products 01.29.01

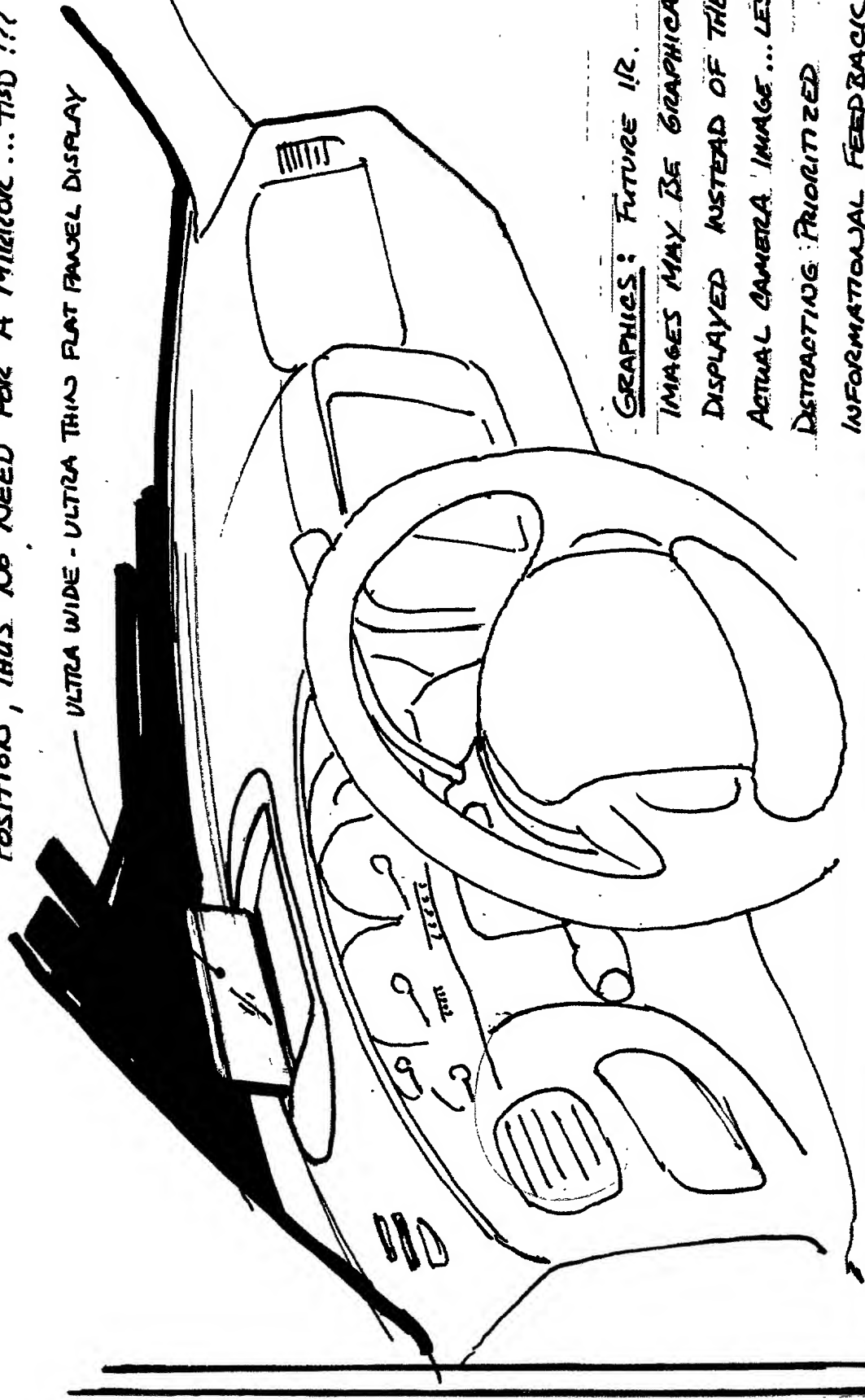
14

● A LOOK INTO THE FUTURE — ADDITIONAL PATENT ???

NEW DISPLAY TECHNOLOGIES THAT MAY ALLOW FOR ULTRA THIN FLAT PANEL DISPLAYS AND POSSIBLY ALLOW FOR CUSTOM SIZES (ULTRA WIDE FORMAT - PANORAMIC VIEW). IF THIS IS THE FUTURE THEN IT MAY BE THAT THE DISPLAY ITSELF WILL ROTATE UP TO

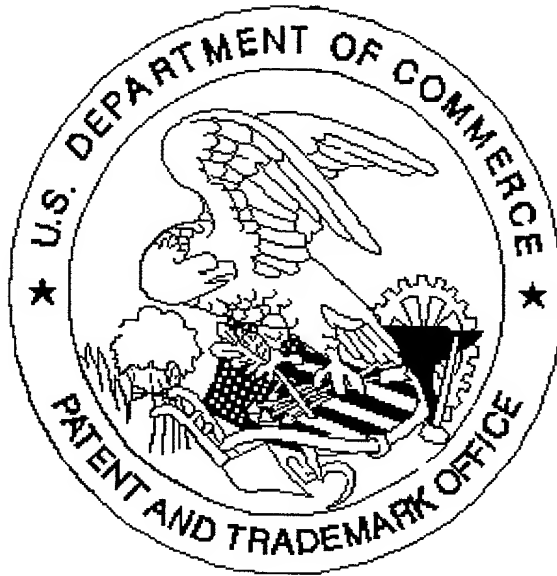
POSITION, THUS NO NEED FOR A MIRROR ... TBD ???

— ULTRA WIDE - ULTRA THIN FLAT PANEL DISPLAY



GRAPHICS: FUTURE I/R.  
IMAGES MAY BE GRAPHICALLY  
DISPLAYED INSTEAD OF THE  
ACTUAL CAMERA IMAGE... LESS  
DISTRACTING PRIORITIZED  
INFORMATIONAL FEEDBACK.

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